EXHIBIT AA

Page 1 Page 2 UNITED STATES DISTRICT COURT PRESENT: NORTHERN DISTRICT OF INDIANA 2 ON BEHALF OF THE PLAINTIFFS: SOUTH BEND DIVISION JONES WARD PLC The Pointe IN RE: BIOMET M2a-MAGNUM HIP) 1205 East Washington Street, Suite 111 IMPLANT PRODUCTS LIABILITY) No. 3:12-md-2391-Louisville, Kentucky 40206 LITIGATION (MDL 2391) 502-882-6000) RLM-MGG BY: ALEX C. DAVIS, ESQ. THIS DOCUMENT RELATES TO ALL) 9 alex@jonesward.com **CASES**) 10 11 ON BEHALF OF THE DEFENDANTS: 12 LADUE CURRAN & KUEHN LLC 13 100 East Wayne Street The videotaped deposition of DAVID SCHROEDER, called for examination, taken pursuant to 14 Suite 300 South Bend, Indiana 46601 the Federal Rules of Civil Procedure of the United States District Courts pertaining to the taking of 574-968-0760 depositions, taken before JULIANA F. ZAJICEK, CSR No. BY: JOHN A. CONWAY, ESQ. 17 84-2604, at Suite 300, 100 East Wayne Street, South 18 jconway@lck-law.com Bend, Indiana, on June 29, 2017, at 9:20 a.m. 19 20 THE VIDEOGRAPHER: 21 MR. STEPHAN HOOG, 22 Golkow Technologies. 23 2.4 REPORTED BY: JULIANA F. ZAJICEK, CSR NO. 84-2604. Page 3 Page 4 INDEX EXHIBITS (Continued) 1 2 SCHROEDER EXHIBIT MARKED FOR ID 2 3 Document titled "Clinical 3 WITNESS: PAGE: 4 **Evaluation Report on Biomet** 4 DAVID SCHROEDER 5 Metal on Metal THA; 5 EXAM BY MR. DAVIS..... 6 6 BMT-MM10246910 - 939...... 169 6 7 **** 8 No. 7 Letter from Ice Miller to Jones 8 9 Ward, 3/28/16 w/enclosure; Maetrics00001 - 030...... 190 9 EXHIBITS 10 MARKED FOR ID 10 SCHROEDER EXHIBIT 11 No. 8 Letter from Zimmer to FDA, 12 No. 1 Plaintiffs' Notice of Videotaped 11 12/21/16, Subject: Response to 13 Deposition and Subpoena Duces 12 FDA 483 Observations Issued to 14 13 Zimmer Biomet, Warsaw North 15 14 No. 2 Expert Report of David Schroeder.... 24 16 Campus, November 22, 2016...... 200 15 No. 3 Letter from Biomet to FDA, 16 8/25/04, re: K042037 M2a-Magnum No. 9 Document titled: "Cementless 18 17 System 510(k) Premarket Total Hip Arthroplasty With 19 20 18 Notification, w/attachment; Metasul Bearings Provides Good BMT-MM00004407 - 417..... 76 21 Results in Active Young 19 22 Patients: A Concise Followup"...... 209 20 No. 4 Document titled: "#1678 - Free 23 Papers, Variations In The 21 24 No. 10 Document titled: "Hard-on-Hard 22 Subjective Health, Anxiety and 25 Bearings Are Associated With 23 Functional Scores in a 26 Increased Noise Generation in 24 Prospective Worldwide 27 Young Patients Undergoing Hip 2.5 Multi-Centre Study of a Recalled 28 Arthroplasty"...... 221 26 Metal-on-Metal Hip Implant 29 30 27 System"..... 107 31 28 32 29 No. 5 E-mail chain w/attachment; 33 30 BMT-MM05825199 - 200 and 34 31 BMT-MM05824289 - 301...... 163 35 32 36 33 37

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why there are varying -- it's a relationship of contact stress and form errors in the devices.

Q. But some of the cup and head sizes of these devices overlap. For example, the Magnum can be

5 made as small as 38 for the femoral head size and the 6 M2a-Taper, you know, is smaller, but ranges from --

7 well, the cup size from the M2a-Taper ranges as large

8 as 70 millimeters. So if there is some overlap

9 between cup and head sizes, why would the diametrical

clearance still be so much greater for the -- the

11 Magnum versus, say, the 38?

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A. So you are misunderstanding the chart then.

So a M2a-Taper has a cup size that's 78, or 70 millimeters, but it still has a 28-millimeter bearing surface inside of there.

Q. Right. And I know that the M2a-38 has a standard size for the -- the femoral head and then the cup has that -- that same inside diameter and then it's the outside diameter that changes, right --

A. Say that --

Q. -- the mere thickness?

23 A. Yes, correct.

Q. Okay. So in your -- in your view, do

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the -- do the diametrical clearances change at all for the different sizes of the heads and cups for, for

example, the M2a-Magnum?

A. Within the M2a-Magnum, those sizes, the -it didn't step up. It stayed the same between those.

So for the entire M2a-Magnum range, if I remember correctly, it's 150 to 300-micron.

Q. Okay. Whether -- whether you are dealing with a 38-millimeter head or a 60-millimeter head?

A. Correct.

Q. Okay. It's not that a 38-millimeter head in a Magnum would be closer to the 150-micron range?

A. It would not be.

Q. They would all be within that same range.

Do you believe that the larger diametrical clearance on the M2a-Magnum produced lower wear rates than the -- the smaller diametrical clearance on the M2a-38?

A. I don't think that it created lower. I think it's because -- I mean, when you go to the larger head diameters, even at the higher clearances, your effective radius and your contact stresses are lower than what you still have in the M2a-38.

Q. Can you say that again for me?

Page 95

A. So, one of the things when you talk about the varying clearances is that one way to try and discuss what the effect of that clearance is, is to do what's called an effective radius. And what that does is it looks at effectively if you were to take a -- a flat surface and you put a ball on top of that flat surface, what -- what radius would it be so that you effectively would have the same contact stress that you have in a ball and socket joint.

Does that make sense so far?

Q. I'm with you.

12 A. Okay.

So if you take a larger diameter, even though it has a higher clearance, it may have a -- it's not necessarily the clearance. It's the fact that we can get a higher effective radius which in turn reduces the contact stress. So you are apparently -- it's -- it's a -- you are making sure that you have enough clearance so that you don't get equatorial loading because of form errors -- we can talk about that if you want to -- and getting the contact stresses as low as possible.

Q. So in your opinion, the larger clearances for the M2a-Magnum do not necessarily translate into

Page 96

larger or lesser amounts of wear compared to the 38?

MR. CONWAY: Objection; vague.

3 BY THE WITNESS:

A. It -- it's not as simple as the clearances would give you that. I mean, you are changing multiple things at the same time. You are changing diameters also. There is issues of sphericity. I just -- it's not that simple.

9 BY MR. DAVIS:

Q. Okay. But so -- so -- but you -- you are agreeing with me that -- that we can't just look at clearance, using the -- just clearance alone does not make the Magnum a --

A. Just clearances?

Q. -- device subject to -- to lesser wear?

16 A. Just clearance alone, no.

Q. Okay. Would there have been a way to

create the M2a-Magnum and ReCap with a diametrical

19 clearance identical to the M2a-38, could that have

been done?

A. Could it have been done? I suppose we

22 could have manufactured it.

Q. Why would that not have been a good idea?

A. When you go to the larger components, and

	Page 97		Page 98
1	the Magnum shell is also a slightly thinner shell, you	1	Q. I'm sorry. Paragraph 38, Page 16, that
2	want to make sure that if there is any deformation	2	Biomet's metal-on-metal hips were different from the
3	that you are not going to get equatorial loading. So	3	hips of other manufacturers, including the hips
4	you want to have more a little bit larger clearance	4	designed by DePuy and Zimmer that were the subject of
5	so that if there is any deformation in putting these	5	product recalls.
6	components in, that you are not going to get	6	I don't see any supporting references
_		7	there. Is it safe to assume that you're referring to
7	equatorial loading.	_	
8	Q. And that's one of the reasons that you	8	the DePuy ASR and the Zimmer Durom?
9	believe the ASR was so failure prone, because it had a	9	A. Yes.
10	very thin shell, correct?	10	Q. Okay. You say here that Biomet devices
11	MR. CONWAY: Objection; I don't think there is	11	are designed differently, configured differently, and
12	any foundation for that question. I don't think he	12	they perform differently, right?
13	has ever said that.	(13)	A. Yes.
14	But he can answer.	14	Q. Do you believe that the Biomet devices
15	BY THE WITNESS:	15	are overall they've been better performers than
16	A. The ASR, I think, has multiple issues.	16	other metal-on-metal hips designed by other companies
17	Whether or not clamping was one of them, I'm not real	17	on average?
18	sure if I know that clamping was one of them. It	18	A. On average, yes.
19	might be, though. It was a thin cup.	19	Q. Would that include revision rates?
20	BY MR. DAVIS:	20	A. Well, it depends on which revision rates
21	Q. Okay. Well, let's let's talk a little	21	you you go to. So I believe they still perform
22	bit about the ASR on Page 16.	22	equivalent or better.
23	You state in Page 38 that	23	Q. In general?
24	A. Paragraph 38 you mean?	24	A. In general. I do know that for the DePuy
	Page 99		Page 100
1	Page 99 ASR we perform much better. I don't recall the	1	Page 100 A. I am aware that one or two sizes of the
1 2		1 2	_
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2	ASR we perform much better. I don't recall the revision rates of the Durom, but that varies depending	2	A. I am aware that one or two sizes of the Birmingham hip have been recalled.
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